

Device for the regulation of the heat flow of an aluminium fusion electrolysis cell, and method of operating this cell

Patent number: EP0047227
Publication date: 1982-03-10
Inventor: KUGLER TIBOR; MEIER HANS-ANTON
Applicant: ALUSUISSE (CH)
Classification:
- International: C25C3/08; C25C3/06
- European: C25C3/08; C25C3/20
Application number: EP19810810345 19810824
Priority number(s): CH19800006601 19800902; DE19803033710 19800908

Also published as:

EP0047227 (A3)
DE3033710 (A1)

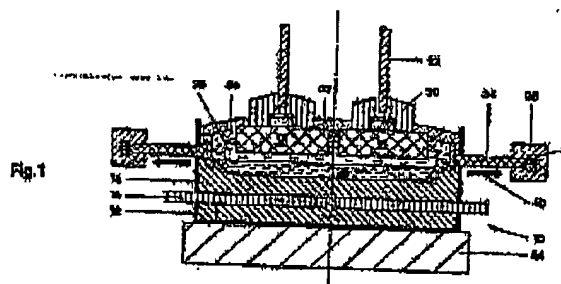
Cited documents:

DE2740340
DE1758149
DE2615652
DE2942609
SU600214
more >>

[Report a data error here](#)

Abstract of EP0047227

The comparatively high supply of electrical energy to an aluminium fusion electrolysis cell should overcome without damage an enforced interruption, for example due to a defect or a reduction during peak loadings due to private households. The cell insulation (13) between steel bath (12) and carbon lining (14) is reinforced by up to 50% and up to double the amount of alumina (32) is poured onto the electrolyte crust (30). End faces of heat exchanger tubes (34) built into the interior of the cell as dead-end projects through peripheral parts of the cell (10) and terminate a heat exchanger (38, 44) disposed outside the cell. For 70-80% of the normal value of the current level, the cell is in thermal equilibrium without heat being removed or supplied. At higher current levels, in particular at the normal value, heat is continuously removed. At lower values, the inter-polar distance is increased or heat is supplied from another energy source.



Data supplied from the [esp@cenet](#) database - Worldwide